

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

OCD Artesia

FORM APPROVED  
OMB NO. 1004-0135  
Expires: July 31, 2010**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.***SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other: INJECTION		5. Lease Serial No. NMLC029426B
2. Name of Operator LINN OPERATING INCORPORATED E-Mail: nfitzwater@linnenergy.com		6. If Indian, Allottee or Tribe Name
3a. Address 600 TRAVIS STREET SUITE 5100 HOUSTON, TX 77002	3b. Phone No. (include area code) Ph: 281-840-4266 Fx: 281-840-4006	7. If Unit or CA/Agreement, Name and/or No.
4. Location of Well (Footage, Sec., T, R, M., or Survey Description) Sec 3 T17S R31E NESE 1980FSL 660FEL		8. Well Name and No. H E WEST B 26
		9. API Well No. 30-015-05060-00-S1
		10. Field and Pool, or Exploratory GRAYBURG
		11. County or Parish, and State EDDY COUNTY, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other Workover Operations
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Accepted for record

NMOCB RT  
9/29/11

Injection well repair

5-18-11 Road rig to location spot in RUWSU. Tbg 70 psi bleed down well. NDWH NUBOP < RU floor & tongs rebase pkr, pkr wouldn't come up hole but wouldn't go bk down. We know pkr released because we have flow on csg. PU 1 jts cont working it for 2 hrs no luck will still go down but won't come up. Must have something on top of pkr possibly tong or slip die. SWI ordered W/S, W/L to cut off tbg, fishing tools.

5-19-33 Tbg 500 psi bleed down well to tank. RU W/L PU lubricator RIH w/1.81 gauge ring POOH. PU 1 11/16 checmical cutter RIH cut off tbg @ 3310 left 35' for fishing hand to work with. POOH RD W/L and release. Spot in W/S. TOOH w/105 jts tbg & 15' piece. PU O/S w/2 3/8 grapple, top sub, bumper

SEE ATTACHED FOR  
CONDITIONS OF APPROVAL

14. Thereby certify that the foregoing is true and correct. <b>Electronic Submission #114498 verified by the BLM Well Information System For LINN OPERATING INCORPORATED, sent to the Carlsbad Committed to AFMSS for processing by KURT SIMMONS on 08/05/2011 (11KMS2250SE)</b>	
Name (Printed/Typed) TAMMY SCARBOROUGH	Title FIELD ADMIN III
Signature (Electronic Submission)	Date 08/04/2011

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved By <b>ACCEPTED</b>	Title DUNCAN WHITLOCK LEAD PETROLEUM ENGINEERING TECH	Date 09/19/2011
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		Office Carlsbad

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\***

## **Additional data for EC transaction #114498 that would not fit on the form**

### **32. Additional remarks, continued**

sub, jars, XO, 6-3 1/8 DC's, XO 100 jts tag fish @ 3319' latch up jarred 5-6 times @ 60k and fish came free. TOO H w/100 jts, BHA ld fish. Pkr had 3 broken slips we got 2 out 1 still in hole. TIH w/6 DC's TOO H LD DC's, release fishing hand. SWI

5-20-11 Tbg 500, bleed down well. PU 4 1/2 scrapper & 3 7/8 bit TIH w/111 jts tag fill @ 3460' bottom perf 3724' have open hole to 3941'. TOO H w/111 jts LD scrapper. PU bailer TIH w/111 jts start bailing only made 5' to 3465' worked it there for an hour made no hole. TOO H w/111 jts couldn't get rev unit in a timely manner SWI. Rev unit & DC's will be delivered this afternoon.

5-23-11 PU 3 7/8 bit sub, PU 6-3 1/8 DC TIH w/105 jts tag @ 3465'. RU rev unit, PU swivel drill down jt 105 to 3470'. PU jts 106 ran out of water waited 30 min continue drilling. Drilled jt 106 down to 3485' and it quit drlg & big kept plugging. Reversed circ cont. drlg finally fell through drill down to 3501'. PU jt 107 drilled 5' in 2 hrs to 3506, made total of 41' still have 228' of perfs covered. Called David & advised. Want to pump acid. LD swivel TOO H w/10 jts to et above perfs. SWI

5-24-11 Bleed down well. TOO H w/97 jts, 6 DC. PU Pkr TIH w/108 jts set pkr @ 3382'. RU crane. Start pumping acid & pkr was leaking. Pulled pkr in to compression and it held. Cont pump 2000 gal 15% HCL, 40 bbls 2% KCL ISIP 2500 psi. SWI let acid soak overnight it wold be to windy to drop pipe anyways.

5-25-11 Tbg 800 psi, bleed down well release pkr, TOO H w/108 jts, LD pkr. PU new 3 7/8 bit & bit sub, 6 3 1/8 DC TIH 105 jts tagged @ 3465' we had left it @ 3506 2 days before hopefully just need to redress top. PU swivel, start cleaning out. PU total of 10 jts cleaned out 3785' which gave us 31' of rat hole, circ. clean LD swivel.

5-26-11 Bleed down well, TOO H LD 78 jts W/S, 6 DC's. Waited 1 hr on tbg tester to finish @ Russell 6. RU Tbg tester. PU 4 1/2 arrow set 1, 1.50 profile, T2 on/off tool, TIH w/107, testing tbg to 5000 psi. RD tbg tester. RD floor & tongs, ND BOP land tbg. Circ 35 bbls pkr fluid set pkr @ 3287' land tbg pressure test MOCK MIT 500 psi for 30 min, lost 10 psi, good. RDWSU move off

## **Conditions of Approval: Wells with Packers\***

**Linn Operating Inc.**

**H.E. West "B" 26**

**API 3001505060**

September 14, 2011

1. Conduct a Mechanical Integrity Test of the tubing/casing annulus after a tubing, packer or casing seal is established. Repair that seal any time more than five barrels of packer fluid is replaced within 30 days.
  - a. The minimum test pressure should be 500 psig for 30 minutes or 300 psig for 60 minutes, with 200 psig differentials between tubing and casing pressure (at test time) but no more than 70% of casing burst pressure as described by Onshore Order 2.III.B.1.h. (The tubing or reservoir pressure may need to be reduced). An alternate method for a BLM approved MIT is to have the fluid filled system open to atmospheric pressure and have a loss of less than five barrels in 30 days witnessed by a BLM authorized officer.
  - b. Document the pressure test on a calibrated recorder chart registering within 25 to 85 per cent of its full range. Greater than 10% pressure leakoff will be viewed as a failed MIT. Less than 10% pressure leakoff will be evaluated site specifically and may restrict injection approval.
  - c. Notify Paul R. Swartz at 575-234-5985 and/or 575-200-7902 at least 24 hours before the test. If there is no response, notify the BLM on call drilling phone, 575-361-2822. In Lea County call 575-393-3612.
  - d. Submit a subsequent Sundry Form 3160-5 relating the MIT activity. Include a copy of the recorded MIT pressure chart. List the name of the BLM witness, or the notified person and date of notification. NMOCD is to retain the original recorded MIT chart.
  - e. Use of tubing internal protection, on/off tubing equipment just above the packer, and a profile nipple installation is required. The setting depths and descriptions of each are to be included in the subsequent sundry. List (by date) descriptions of daily activity of any previously unreported wellbore work.
  - f. **Submit the original subsequent sundry with three copies to BLM Carlsbad.**
2. Compliance with a NMOCD Administrative Order is required, submit documentation of that authorization.
  - a. Approved injection pressure compliance is required.
  - b. If injection pressure exceeds the approved pressure you are required to reduce that pressure and notify the BLM within 24 hours.
  - c. When injection pressure is within 50 psig of the maximum pressure, install automation equipment that will prevent exceeding that maximum.
    - i. Submit a subsequent report (Sundry Form 3160-5) describing the installed automation equipment within 30 days.
  - e. Other unexplained significant variations of rate or pressure to be reported within 5 days of notice.

3. The casing/tubing annulus is required to be monitored for communication with injection fluid or loss of casing integrity.
- a. The annulus is to be maintained full of packer fluid at atmospheric pressure. Installation of equipment that will display on site, continuous open to the air fluid level is required. A BLM inspector may request verification of this fluid level at any time.
  - b. **Submit a subsequent report (Sundry Form 3160-5)** describing the installation of packer fluid level monitoring equipment within 30 days of this approval.
  - c. The operator shall keep monthly records documenting that the casing annulus is fluid filled. A suggested format for these records is available from the BLM Carlsbad Field Office. Copies of those records shall be furnished at the request of a BLM authorized officer.
  - d. Loss of packer fluid above five barrels per month requires notification of the BLM authorized officer within 5 days.
  - a. Gain of annular fluid requires notification within 24 hours. Cease injection and maintain a production casing pressure of Opsia. Notify the BLM's authorized officer (Paul R. Swartz at 575-200-7902). If there is no response, notify the BLM on call drilling phone, 575-361-2822. In Lea County call 575-393-3612.
  - e. Also submit to this office a (Sundry Form 3160-5) Notice of Intent (NOI) for approval by BLM and NMOCD with a detailed plan for correction and the anticipated date of correction. Verbal approval for the plan may be given by a BLM authorized officer, with the NOI filed within five business days.
  - f. After the repairs submit a (Sundry Form 3160-5) Subsequent report, describing the repair(s) and Mechanical Integrity Test as per item 1 above.

\*COA's prepared by Paul R. Swartz